

SEQUENCE LISTING

<110> Zhou, Qun-Yong

<120> Methods For Modulating Gastric Secretion
Using Prokineticin Receptor Antagonists

<130> 66778-365

<150> 60/457,891

<151> 2003-03-25

<160> 32

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 1377

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (55)...(369)

<400> 1

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Arg Gly Ala Thr Arg Val Ser Ile Met Leu Leu Leu Val Thr Val Ser
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gac tgt gct gtg atc aca ggg gcc tgt gag cgg gat gtc cag tgt ggg 153
Asp Cys Ala Val Ile Thr Gly Ala Cys Glu Arg Asp Val Gln Cys Gly
      20                      25                      30

gca ggc acc tgc tgt gcc atc agc ctg tgg ctt cga ggg ctg cgg atg 201
Ala Gly Thr Cys Cys Ala Ile Ser Leu Trp Leu Arg Gly Leu Arg Met
      35                      40                      45

tgc acc ccg ctg ggg cgg gaa ggc gag gag tgc cac ccc ggc agc cac 249
Cys Thr Pro Leu Gly Arg Glu Gly Glu Glu Cys His Pro Gly Ser His
      50                      55                      60                      65

aag gtc ccc ttc ttc agg aaa cgc aag cac cac acc tgt cct tgc ttg 297
Lys Val Pro Phe Phe Arg Lys Arg Lys His His Thr Cys Pro Cys Leu
      70                      75                      80

ccc aac ctg ctg tgc tcc agg ttc ccg gac ggc agg tac cgc tgc tcc 345
Pro Asn Leu Leu Cys Ser Arg Phe Pro Asp Gly Arg Tyr Arg Cys Ser

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atg gac ttg aag aac atc aat ttt taggcgcttg cctgggtctca ggataccac 399
 Met Asp Leu Lys Asn Ile Asn Phe
 100 105

catccttttc tgagcacagc ctggattttt atttctgcca tgaaaccacag ctcccatgac 459
 tctccagtc cctacactga ctaccctgat ctctcttgtc tagtacgcac atatgcacac 519
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 gtttccttaa acaactcctt tccaaggatc agccctgaga gcagggtggg gactttgagg 1239
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 aaagcaccaa ctgaactg 1377

<210> 2
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 2
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 Ser Asp Cys Ala Val Ile Thr Gly Ala Cys Glu Arg Asp Val Gln Cys
 20 25 30
 Gly Ala Gly Thr Cys Cys Ala Ile Ser Leu Trp Leu Arg Gly Leu Arg
 35 40 45
 Met Cys Thr Pro Leu Gly Arg Glu Gly Glu Glu Cys His Pro Gly Ser
 50 55 60
 His Lys Val Pro Phe Phe Arg Lys Arg Lys His His Thr Cys Pro Cys
 65 70 75 80
 Leu Pro Asn Leu Leu Cys Ser Arg Phe Pro Asp Gly Arg Tyr Arg Cys
 85 90 95
 Ser Met Asp Leu Lys Asn Ile Asn Phe
 100 105

<210> 3
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 3
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 1 5 10 15
 Thr Cys Cys Ala Ile Ser Leu Trp Leu Arg Gly Leu Arg Met Cys Thr

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Pro	Leu	Gly	Arg	Glu	Gly	Glu	Glu	Cys	His	Pro	Gly	Ser	His	Lys	Val
	35		40		45										
Pro	Phe	Phe	Arg	Lys	Arg	Lys	His	His	Thr	Cys	Pro	Cys	Leu	Pro	Asn
	50		55		60										
Leu	Leu	Cys	Ser	Arg	Phe	Pro	Asp	Gly	Arg	Tyr	Arg	Cys	Ser	Met	Asp
65			70		75									80	
Leu	Lys	Asn	Ile	Asn	Phe										
			85												

<210> 4
 <211> 1406
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (10)...(333)

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ctg ccg ccg ctg ctg ctc acg ccc cgc gct ggg gac gcc gcc gtg atc 99
 Leu Pro Pro Leu Leu Leu Thr Pro Arg Ala Gly Asp Ala Ala Val Ile
 15 20 25 30

acc ggg gct tgt gac aag gac tcc caa tgt ggt gga ggc atg tgc tgt 147
 Thr Gly Ala Cys Asp Lys Asp Ser Gln Cys Gly Gly Gly Met Cys Cys
 35 40 45

gct gtc agt atc tgg gtc aag agc ata agg att tgc aca cct atg ggc 195
 Ala Val Ser Ile Trp Val Lys Ser Ile Arg Ile Cys Thr Pro Met Gly
 50 55 60

aaa ctg gga gac agc tgc cat cca ctg act cgt aaa gtt cca ttt ttt 243
 Lys Leu Gly Asp Ser Cys His Pro Leu Thr Arg Lys Val Pro Phe Phe
 65 70 75

ggg cgg agg atg cat cac act tgc cca tgt ctg cca ggc ttg gcc tgt 291
 Gly Arg Arg Met His His Thr Cys Pro Cys Leu Pro Gly Leu Ala Cys
 80 85 90

tta cgg act tca ttt aac cga ttt att tgt tta gcc caa aag 333
 Leu Arg Thr Ser Phe Asn Arg Phe Ile Cys Leu Ala Gln Lys
 95 100 105

taatcgctct ggagtagaaa ccaaatgtga atagccacat cttacctgta aagtcttact 393
 tgtgattgtg ccaaacaaaa aatgtgccag aaagaaatgc tcttgcttcc tcaactttcc 453
 aagtaacatt tttatctttg atttgtaaat gatttttttt ttttttttta tcgaaagaga 513
 attttacttt tggatagaaa tatgaagtgt aaggcattat ggaactgggtt cttatattccc 573
 tgttttgtgtt ttggtttgat ttggcttttt tcttaaattgt caaaaacgta cccattttca 633
 caaaaatgag gaaaataaga atttgatatt ttgttagaaa aacttttttt tttttttctc 693

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accaccccaa gccccatttg tgccctgccg cacaaataca cctacagctt ttgggtccctt 753
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<210> 5
<211> 108
<212> PRT
<213> Homo sapiens

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<400> 5
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Pro Leu Leu Leu Thr Pro Arg Ala Gly Asp Ala Ala Val Ile Thr Gly
 20          25          30
Ala Cys Asp Lys Asp Ser Gln Cys Gly Gly Gly Met Cys Cys Ala Val
 35          40          45
Ser Ile Trp Val Lys Ser Ile Arg Ile Cys Thr Pro Met Gly Lys Leu
 50          55          60
Gly Asp Ser Cys His Pro Leu Thr Arg Lys Val Pro Phe Phe Gly Arg
 65          70          75          80
Arg Met His His Thr Cys Pro Cys Leu Pro Gly Leu Ala Cys Leu Arg
 85          90          95
Thr Ser Phe Asn Arg Phe Ile Cys Leu Ala Gln Lys
100          105

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<210> 6
<211> 81
<212> PRT
<213> Homo sapiens

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<400> 6
Ala Val Ile Thr Gly Ala Cys Asp Lys Asp Ser Gln Cys Gly Gly Gly
 1          5          10          15
Met Cys Cys Ala Val Ser Ile Trp Val Lys Ser Ile Arg Ile Cys Thr
 20          25          30
Pro Met Gly Lys Leu Gly Asp Ser Cys His Pro Leu Thr Arg Lys Val
 35          40          45
Pro Phe Phe Gly Arg Arg Met His His Thr Cys Pro Cys Leu Pro Gly
 50          55          60
Leu Ala Cys Leu Arg Thr Ser Phe Asn Arg Phe Ile Cys Leu Ala Gln
 65          70          75          80
Lys

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<210> 7
<211> 21
<212> PRT
<213> Homo sapiens

<400> 7
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1 5 10 15
Lys Arg Lys Lys Glu
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<210> 8
<211> 21
<212> PRT
<213> Homo sapiens

<400> 8
Ser His Val Ala Asn Gly Arg Gln Glu Arg Arg Arg Ala Lys Arg Arg
1 5 10 15
Lys Arg Lys Lys Glu
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<210> 9
<211> 19
<212> PRT
<213> Homo sapiens

<400> 9
Met Arg Gly Ala Thr Arg Val Ser Ile Met Leu Leu Leu Val Thr Val
1 5 10 15
Ser Asp Cys

<210> 10
<211> 26
<212> PRT
<213> Homo sapiens

<400> 10
Met Arg Ser Leu Cys Cys Ala Pro Leu Leu Leu Leu Leu Leu Pro
1 5 10 15
Leu Leu Leu Thr Pro Pro Ala Gly Asp Ala
20 25

<210> 11
<211> 96
<212> PRT
<213> Bombina variegata

<400> 11
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20	25	30	
Gly Ser Gly Thr Cys Cys Ala Ala Ser Ala Trp Ser Arg Asn Ile Arg			
35	40	45	
Phe Cys Ile Pro Leu Gly Asn Ser Gly Glu Asp Cys His Pro Ala Ser			
50	55	60	
His Lys Val Pro Tyr Asp Gly Lys Arg Leu Ser Ser Leu Cys Pro Cys			
65	70	75	80
Lys Ser Gly Leu Thr Cys Ser Lys Ser Gly Glu Lys Phe Lys Cys Ser			
85	90	95	

<210> 12
 <211> 81
 <212> PRT
 <213> Dendroaspis polylepis polylepis

<400> 12
Ala Val Ile Thr Gly Ala Cys Glu Arg Asp Leu Gln Cys Gly Lys Gly
1 5 10 15
Thr Cys Cys Ala Val Ser Leu Trp Ile Lys Ser Val Arg Val Cys Thr
20 25 30
Pro Val Gly Thr Ser Gly Glu Asp Cys His Pro Ala Ser His Lys Ile
35 40 45
Pro Phe Ser Gly Gln Arg Lys Met His His Thr Cys Pro Cys Ala Pro
50 55 60
Asn Leu Ala Cys Val Gln Thr Ser Pro Lys Lys Phe Lys Cys Leu Ser
65 70 75 80
Lys

<210> 13
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic construct

<400> 13
Ala Val Ile Thr Gly Ala Cys Glu Arg Asp Val Gln Cys Gly Ala Gly
1 5 10 15
Thr Cys Cys Ala Ile Ser Leu Trp Leu Arg Gly Leu Arg Met Cys Thr
20 25 30
Pro Leu Gly Arg Glu Gly Glu Glu Cys His Pro Gly Ser His Lys Val
35 40 45
Pro Phe Phe Gly Arg Arg Met His His Thr Cys Pro Cys Leu Pro Gly
50 55 60
Leu Ala Cys Leu Arg Thr Ser Phe Asn Arg Phe Ile Cys Leu Ala Gln
65 70 75 80
Lys

<210> 14
<211> 86
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 14
Ala Val Ile Thr Gly Ala Cys Asp Lys Asp Ser Gln Cys Gly Gly Gly
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Met Cys Cys Ala Val Ser Ile Trp Val Lys Ser Ile Arg Ile Cys Thr
20 25 30
Pro Met Gly Lys Leu Gly Asp Ser Cys His Pro Leu Thr Arg Lys Val
35 40 45
Pro Phe Phe Arg Lys Arg Lys His His Thr Cys Pro Cys Leu Pro Asn
50 55 60
Leu Leu Cys Ser Arg Phe Pro Asp Gly Arg Tyr Arg Cys Ser Met Asp
65 70 75 80
Leu Lys Asn Ile Asn Phe
85

<210> 15
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 15
Gly Ile Leu Ala Val Ile Thr Gly Ala Cys Glu Arg Asp Val Gln Cys
1 5 10 15
Gly Ala Gly Thr Cys Cys Ala Ile Ser Leu Trp Leu Arg Gly Leu Arg
20 25 30
Met Cys Thr Pro Leu Gly Arg Glu Gly Glu Glu Cys His Pro Gly Ser
35 40 45
His Lys Val Pro Phe Phe Arg Lys Arg Lys His His Thr Cys Pro Cys
50 55 60
Leu Pro Asn Leu Leu Cys Ser Arg Phe Pro Asp Gly Arg Tyr Arg Cys
65 70 75 80
Ser Met Asp Leu Lys Asn Ile Asn Phe
85

<210> 16
<211> 85
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 16

Val	Ile	Thr	Gly	Ala	Cys	Glu	Arg	Asp	Val	Gln	Cys	Gly	Ala	Gly	Thr
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Cys	Cys	Ala	Ile	Ser	Leu	Trp	Leu	Arg	Gly	Leu	Arg	Met	Cys	Thr	Pro
			20					25					30		
Leu	Gly	Arg	Glu	Gly	Glu	Glu	Cys	His	Pro	Gly	Ser	His	Lys	Val	Pro
			35				40					45			
Phe	Phe	Arg	Lys	Arg	Lys	His	His	Thr	Cys	Pro	Cys	Leu	Pro	Asn	Leu
	50					55					60				
Leu	Cys	Ser	Arg	Phe	Pro	Asp	Gly	Arg	Tyr	Arg	Cys	Ser	Met	Asp	Leu
65					70				75						80
Lys	Asn	Ile	Asn	Phe											
					85										

<210> 17

<211> 86

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<400> 17

Ala	Ala	Ala	Ala	Ala	Ala	Cys	Glu	Arg	Asp	Val	Gln	Cys	Gly	Ala	Gly
1				5					10					15	
Thr	Cys	Cys	Ala	Ile	Ser	Leu	Trp	Leu	Arg	Gly	Leu	Arg	Met	Cys	Thr
			20					25					30		
Pro	Leu	Gly	Arg	Glu	Gly	Glu	Glu	Cys	His	Pro	Gly	Ser	His	Lys	Val
		35					40					45			
Pro	Phe	Phe	Arg	Lys	Arg	Lys	His	His	Thr	Cys	Pro	Cys	Leu	Pro	Asn
	50					55					60				
Leu	Leu	Cys	Ser	Arg	Phe	Pro	Asp	Gly	Arg	Tyr	Arg	Cys	Ser	Met	Asp
65					70				75						80
Leu	Lys	Asn	Ile	Asn	Phe										
					85										

<210> 18

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<400> 18

Met	Ala	Val	Ile	Thr	Gly	Ala	Cys	Glu	Arg	Asp	Val	Gln	Cys	Gly	Ala
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Gly	Thr	Cys	Cys	Ala	Ile	Ser	Leu	Trp	Leu	Arg	Gly	Leu	Arg	Met	Cys
			20					25					30		
Thr	Pro	Leu	Gly	Arg	Glu	Gly	Glu	Glu	Cys	His	Pro	Gly	Ser	His	Lys
		35					40					45			
Val	Pro	Phe	Phe	Arg	Lys	Arg	Lys	His	His	Thr	Cys	Pro	Cys	Leu	Pro
	50					55					60				

Asn Leu Leu Cys Ser Arg Phe Pro Asp Gly Arg Tyr Arg Cys Ser Met
 65 70 75 80
 Asp Leu Lys Asn Ile Asn Phe
 85

<210> 19
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 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic construct

<400> 19
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 1 5 10

<210> 20
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 20
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 1 5 10 15
 Thr Cys Cys Ala Ile Ser Leu Trp Leu Arg Gly Leu Arg Met Cys Thr
 20 25 30
 Pro Leu Gly Arg Glu Gly Glu Glu Cys His Pro Gly Ser His Lys Val
 35 40 45
 Pro Phe Phe Arg Lys Arg Lys His His Thr Cys Pro Cys Leu Pro Asn
 50 55 60
 Leu Leu Cys Ser Arg Phe Pro Asp Gly Arg Tyr Arg Cys Ser Met Asp
 65 70 75 80
 Leu Lys Asn Ile Asn Phe
 85

<210> 21
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 <212> PRT
 <213> Homo sapiens

<400> 21
 Ala Val Ile Thr Gly Ala
 1 5

<210> 22
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 22

Val Ile Thr Gly Ala
1 5

<210> 23
<211> 7
<212> PRT
<213> Homo sapiens

<400> 23
Met Ala Val Ile Thr Gly Ala
1 5

<210> 24
<211> 393
<212> PRT
<213> Homo sapiens

<400> 24
Met Glu Thr Thr Met Gly Phe Met Asp Asp Asn Ala Thr Asn Thr Ser
1 5 10 15
Thr Ser Phe Leu Ser Val Leu Asn Pro His Gly Ala His Ala Thr Ser
20 25 30
Phe Pro Phe Asn Phe Ser Tyr Ser Asp Tyr Asp Met Pro Leu Asp Glu
35 40 45
Asp Glu Asp Val Thr Asn Ser Arg Thr Phe Phe Ala Ala Lys Ile Val
50 55 60
Ile Gly Met Ala Leu Val Gly Ile Met Leu Val Cys Gly Ile Gly Asn
65 70 75 80
Phe Ile Phe Ile Ala Ala Leu Val Arg Tyr Lys Lys Leu Arg Asn Leu
85 90 95
Thr Asn Leu Leu Ile Ala Asn Leu Ala Ile Ser Asp Phe Leu Val Ala
100 105 110
Ile Val Cys Cys Pro Phe Glu Met Asp Tyr Tyr Val Val Arg Gln Leu
115 120 125
Ser Trp Glu His Gly His Val Leu Cys Thr Ser Val Asn Tyr Leu Arg
130 135 140
Thr Val Ser Leu Tyr Val Ser Thr Asn Ala Leu Leu Ala Ile Ala Ile
145 150 155 160
Asp Arg Tyr Leu Ala Ile Val His Pro Leu Arg Pro Arg Met Lys Cys
165 170 175
Gln Thr Ala Thr Gly Leu Ile Ala Leu Val Trp Thr Val Ser Ile Leu
180 185 190
Ile Ala Ile Pro Ser Ala Tyr Phe Thr Thr Glu Thr Val Leu Val Ile
195 200 205
Val Lys Ser Gln Glu Lys Ile Phe Cys Gly Gln Ile Trp Pro Val Asp
210 215 220
Gln Gln Leu Tyr Tyr Lys Ser Tyr Phe Leu Phe Ile Phe Gly Ile Glu
225 230 235 240
Phe Val Gly Pro Val Val Thr Met Thr Leu Cys Tyr Ala Arg Met Thr
245 250 255
Arg Glu Leu Trp Phe Lys Ala Val Pro Gly Phe Gln Thr Glu Gln Ile
260 265 270
Arg Lys Arg Leu Arg Cys Arg Arg Lys Thr Val Leu Val Leu Met Cys

275	Ile Leu Thr Ala Tyr Val	280	Leu Cys Trp Ala Pro	285	Phe Tyr Gly Phe Thr
290	Ile Val Arg Asp Phe Phe	295	Pro Thr Val Phe Val	300	Lys Glu Lys His Tyr
305	Leu Thr Ala Phe Tyr Ile	310	Val Glu Cys Ile Ala	315	Met Ser Asn Ser Met
	325		330		335
Ile Asn Thr Leu Cys Phe Val	Thr Val Lys Asn Asp Thr Val Lys Tyr				
	340		345		350
Phe Lys Lys Ile Met Leu Leu	His Trp Lys Ala Ser Tyr Asn Gly Gly				
	355		360		365
Lys Ser Ser Ala Asp Leu Asp	Leu Lys Thr Ile Gly Met Pro Ala Thr				
	370		375		380
Glu Glu Val Asp Cys Ile Arg	Leu Lys				
385		390			

<210> 25
 <211> 384
 <212> PRT
 <213> Homo sapiens

<400> 25

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Pro Gln Asp His Ala Ser Ser Leu Ser Phe Asn Phe Ser Tyr Gly Asp															
	20						25					30			
Tyr Asp Leu Pro Met Asp Glu Asp Glu Asp Met Thr Lys Thr Arg Thr															
	35						40					45			
Phe Phe Ala Ala Lys Ile Val Ile Gly Ile Ala Leu Ala Gly Ile Met															
	50						55					60			
Leu Val Cys Gly Ile Gly Asn Phe Val Phe Ile Ala Ala Leu Thr Arg															
	65						70					75			80
Tyr Lys Lys Leu Arg Asn Leu Thr Asn Leu Leu Ile Ala Asn Leu Ala															
		85										90			95
Ile Ser Asp Phe Leu Val Ala Ile Ile Cys Cys Pro Phe Glu Met Asp															
	100											105			110
Tyr Tyr Val Val Arg Gln Leu Ser Trp Glu His Gly His Val Leu Cys															
	115											120			125
Ala Ser Val Asn Tyr Leu Arg Thr Val Ser Leu Tyr Val Ser Thr Asn															
	130											135			140
Ala Leu Leu Ala Ile Ala Ile Asp Arg Tyr Leu Ala Ile Val His Pro															
	145											150			155
Leu Lys Pro Arg Met Asn Tyr Gln Thr Ala Ser Phe Leu Ile Ala Leu															
		165										170			175
Val Trp Met Val Ser Ile Leu Ile Ala Ile Pro Ser Ala Tyr Phe Ala															
	180											185			190
Thr Glu Thr Val Leu Phe Ile Val Lys Ser Gln Glu Lys Ile Phe Cys															
	195											200			205
Gly Gln Ile Trp Pro Val Asp Gln Gln Leu Tyr Tyr Lys Ser Tyr Phe															
	210											215			220
Leu Phe Ile Phe Gly Val Glu Phe Val Gly Pro Val Val Thr Met Thr															
	225											230			235
Leu Cys Tyr Ala Arg Ile Ser Arg Glu Leu Trp Phe Lys Ala Val Pro															
		245										250			255

Gly	Phe	Gln	Thr	Glu	Gln	Ile	Arg	Lys	Arg	Leu	Arg	Cys	Arg	Arg	Lys
			260					265					270		
Thr	Val	Leu	Val	Leu	Met	Cys	Ile	Leu	Thr	Ala	Tyr	Val	Leu	Cys	Trp
		275					280					285			
Ala	Pro	Phe	Tyr	Gly	Phe	Thr	Ile	Val	Arg	Asp	Phe	Phe	Pro	Thr	Val
	290					295					300				
Phe	Val	Lys	Glu	Lys	His	Tyr	Leu	Thr	Ala	Phe	Tyr	Val	Val	Glu	Cys
305					310					315				320	
Ile	Ala	Met	Ser	Asn	Ser	Met	Ile	Asn	Thr	Val	Cys	Phe	Val	Thr	Val
				325					330					335	
Lys	Asn	Asn	Thr	Met	Lys	Tyr	Phe	Lys	Lys	Met	Met	Leu	Leu	His	Trp
			340					345					350		
Arg	Pro	Ser	Gln	Arg	Gly	Ser	Lys	Ser	Ser	Ala	Asp	Leu	Asp	Leu	Arg
		355					360					365			
Thr	Asn	Gly	Val	Pro	Thr	Thr	Glu	Glu	Val	Asp	Cys	Ile	Arg	Leu	Lys
	370					375					380				

<210> 26
 <211> 393
 <212> PRT
 <213> Mus musculus

<400> 26

Met	Glu	Thr	Thr	Val	Gly	Ala	Leu	Gly	Glu	Asn	Thr	Thr	Asp	Thr	Phe
1				5				10					15		
Thr	Asp	Phe	Phe	Ser	Ala	Leu	Asp	Gly	His	Glu	Ala	Gln	Thr	Gly	Ser
		20						25				30			
Leu	Pro	Phe	Thr	Phe	Ser	Tyr	Gly	Asp	Tyr	Asp	Met	Pro	Leu	Asp	Glu
		35					40				45				
Glu	Glu	Asp	Val	Thr	Asn	Ser	Arg	Thr	Phe	Phe	Ala	Ala	Lys	Ile	Val
	50					55				60					
Ile	Gly	Met	Ala	Leu	Val	Gly	Ile	Met	Leu	Val	Cys	Gly	Ile	Gly	Asn
65				70					75					80	
Phe	Ile	Phe	Ile	Thr	Ala	Leu	Ala	Arg	Tyr	Lys	Lys	Leu	Arg	Asn	Leu
			85					90					95		
Thr	Asn	Leu	Leu	Ile	Ala	Asn	Leu	Ala	Ile	Ser	Asp	Phe	Leu	Val	Ala
		100						105				110			
Ile	Val	Cys	Cys	Pro	Phe	Glu	Met	Asp	Tyr	Tyr	Val	Val	Arg	Gln	Leu
		115					120				125				
Ser	Trp	Glu	His	Gly	His	Val	Leu	Cys	Ala	Ser	Val	Asn	Tyr	Leu	Arg
	130					135					140				
Thr	Val	Ser	Leu	Tyr	Val	Ser	Thr	Asn	Ala	Leu	Leu	Ala	Ile	Ala	Ile
145					150					155				160	
Asp	Arg	Tyr	Leu	Ala	Ile	Val	His	Pro	Leu	Arg	Pro	Arg	Met	Lys	Cys
			165					170					175		
Gln	Thr	Ala	Ala	Gly	Leu	Ile	Phe	Leu	Val	Trp	Ser	Val	Ser	Ile	Leu
		180						185				190			
Ile	Ala	Ile	Pro	Ala	Ala	Tyr	Phe	Thr	Thr	Glu	Thr	Val	Leu	Val	Ile
		195					200					205			
Val	Glu	Arg	Gln	Glu	Lys	Ile	Phe	Cys	Gly	Gln	Ile	Trp	Pro	Val	Asp
	210					215					220				
Gln	Gln	Phe	Tyr	Tyr	Arg	Ser	Tyr	Phe	Leu	Leu	Val	Phe	Gly	Leu	Glu
225					230					235				240	
Phe	Val	Gly	Pro	Val	Val	Ala	Met	Thr	Leu	Cys	Tyr	Ala	Arg	Val	Ser

				245					250					255			
Arg	Glu	Leu	Trp	Phe	Lys	Ala	Val	Pro	Gly	Phe	Gln	Thr	Glu	Gln	Ile		
			260					265					270				
Arg	Arg	Thr	Val	Arg	Cys	Arg	Arg	Arg	Thr	Val	Leu	Gly	Leu	Val	Cys		
		275						280					285				
Val	Leu	Ser	Ala	Tyr	Val	Leu	Cys	Trp	Ala	Pro	Phe	Tyr	Gly	Phe	Thr		
	290					295					300						
Ile	Val	Arg	Asp	Phe	Phe	Pro	Ser	Val	Phe	Val	Lys	Glu	Lys	His	Tyr		
305					310					315					320		
Leu	Thr	Ala	Phe	Tyr	Val	Val	Glu	Cys	Ile	Ala	Met	Ser	Asn	Ser	Met		
			325						330					335			
Ile	Asn	Thr	Leu	Cys	Phe	Val	Thr	Val	Arg	Asn	Asn	Thr	Ser	Lys	Tyr		
		340						345					350				
Leu	Lys	Arg	Ile	Leu	Arg	Leu	Gln	Trp	Arg	Ala	Ser	Pro	Ser	Gly	Ser		
	355					360						365					
Lys	Ala	Ser	Ala	Asp	Leu	Asp	Leu	Arg	Thr	Thr	Gly	Ile	Pro	Ala	Thr		
370					375						380						
Glu	Glu	Val	Asp	Cys	Ile	Arg	Leu	Lys									
385					390												

<210> 27
 <211> 381
 <212> PRT
 <213> Mus musculus

<400> 27

Met	Gly	Pro	Gln	Asn	Arg	Asn	Thr	Ser	Phe	Ala	Pro	Asp	Leu	Asn	Pro		
1				5					10					15			
Pro	Gln	Asp	His	Val	Ser	Leu	Asn	Tyr	Ser	Tyr	Gly	Asp	Tyr	Asp	Leu		
		20						25					30				
Pro	Leu	Gly	Glu	Asp	Glu	Asp	Val	Thr	Lys	Thr	Gln	Thr	Phe	Phe	Ala		
	35					40					45						
Ala	Lys	Ile	Val	Ile	Gly	Val	Ala	Leu	Ala	Gly	Ile	Met	Leu	Val	Cys		
50					55						60						
Gly	Ile	Gly	Asn	Phe	Val	Phe	Ile	Ala	Ala	Leu	Ala	Arg	Tyr	Lys	Lys		
65				70					75					80			
Leu	Arg	Asn	Leu	Thr	Asn	Leu	Leu	Ile	Ala	Asn	Leu	Ala	Ile	Ser	Asp		
			85					90					95				
Phe	Leu	Val	Ala	Ile	Val	Cys	Cys	Pro	Phe	Glu	Met	Asp	Tyr	Tyr	Val		
	100							105					110				
Val	Arg	Gln	Leu	Ser	Trp	Ala	His	Gly	His	Val	Leu	Cys	Ala	Ser	Val		
	115					120						125					
Asn	Tyr	Leu	Arg	Thr	Val	Ser	Leu	Tyr	Val	Ser	Thr	Asn	Ala	Leu	Leu		
130						135					140						
Ala	Ile	Ala	Ile	Asp	Arg	Tyr	Leu	Ala	Ile	Val	His	Pro	Leu	Lys	Pro		
145				150					155					160			
Arg	Met	Asn	Tyr	Gln	Thr	Ala	Ser	Phe	Leu	Ile	Ala	Leu	Val	Trp	Met		
			165					170						175			
Val	Ser	Ile	Leu	Ile	Ala	Val	Pro	Ser	Ala	Tyr	Phe	Thr	Thr	Glu	Thr		
	180							185					190				
Ile	Leu	Val	Ile	Val	Lys	Asn	Gln	Glu	Lys	Ile	Phe	Cys	Gly	Gln	Ile		
	195					200						205					
Trp	Ser	Val	Asp	Gln	Gln	Leu	Tyr	Tyr	Lys	Ser	Tyr	Phe	Leu	Phe	Val		
210						215						220					

Phe	Gly	Leu	Glu	Phe	Val	Gly	Pro	Val	Val	Thr	Met	Thr	Leu	Cys	Tyr
225					230					235					240
Ala	Arg	Ile	Ser	Gln	Glu	Leu	Trp	Phe	Lys	Ala	Val	Pro	Gly	Phe	Gln
				245					250					255	
Thr	Glu	Gln	Ile	Arg	Lys	Arg	Leu	Arg	Cys	Arg	Arg	Lys	Thr	Val	Leu
			260				265						270		
Leu	Leu	Met	Gly	Ile	Leu	Thr	Ala	Tyr	Val	Leu	Cys	Trp	Ala	Pro	Phe
	275						280					285			
Tyr	Gly	Phe	Thr	Ile	Val	Arg	Asp	Phe	Phe	Pro	Thr	Val	Val	Val	Lys
	290					295				300					
Glu	Lys	His	Tyr	Leu	Thr	Ala	Phe	Tyr	Val	Val	Glu	Cys	Ile	Ala	Met
305					310					315					320
Ser	Asn	Ser	Met	Ile	Asn	Thr	Ile	Cys	Phe	Val	Thr	Val	Lys	Asn	Asn
			325						330					335	
Thr	Met	Lys	Tyr	Phe	Lys	Lys	Met	Leu	Arg	Leu	His	Trp	Arg	Pro	Ser
		340					345					350			
His	Tyr	Gly	Ser	Lys	Ser	Ser	Ala	Asp	Leu	Asp	Leu	Lys	Thr	Ser	Gly
	355						360				365				
Val	Pro	Ala	Thr	Glu	Glu	Val	Asp	Cys	Ile	Arg	Leu	Lys			
	370					375					380				

<210> 28
 <211> 86
 <212> PRT
 <213> Mus musculus

Ala	Val	Ile	Thr	Gly	Ala	Cys	Glu	Arg	Asp	Ile	Gln	Cys	Gly	Ala	Gly
1				5					10					15	
Thr	Cys	Cys	Ala	Ile	Ser	Leu	Trp	Leu	Arg	Gly	Leu	Arg	Leu	Cys	Thr
			20					25					30		
Pro	Leu	Gly	Arg	Glu	Gly	Glu	Glu	Cys	His	Pro	Gly	Ser	His	Lys	Ile
	35					40					45				
Pro	Phe	Leu	Arg	Lys	Arg	Gln	His	His	Thr	Cys	Pro	Cys	Ser	Pro	Ser
	50					55					60				
Leu	Leu	Cys	Ser	Arg	Phe	Pro	Asp	Gly	Arg	Tyr	Arg	Cys	Phe	Arg	Asp
65					70				75					80	
Leu	Lys	Asn	Ala	Asn	Phe										
				85											

<210> 29
 <211> 81
 <212> PRT
 <213> Mus musculus .

Ala	Val	Ile	Thr	Gly	Ala	Cys	Asp	Lys	Asp	Ser	Gln	Cys	Gly	Gly	Gly
1				5					10					15	
Met	Cys	Cys	Ala	Val	Ser	Ile	Trp	Val	Lys	Ser	Ile	Arg	Ile	Cys	Thr
			20					25					30		
Pro	Met	Gly	Gln	Val	Gly	Asp	Ser	Cys	His	Pro	Leu	Thr	Arg	Lys	Val
	35					40					45				
Pro	Phe	Trp	Gly	Arg	Arg	Met	His	His	Thr	Cys	Pro	Cys	Leu	Pro	Gly

50		55		60											
Leu	Ala	Cys	Leu	Arg	Thr	Ser	Phe	Asn	Arg	Phe	Ile	Cys	Leu	Ala	Arg
65					70					75					80
Lys															

<210> 30
 <211> 86
 <212> PRT
 <213> Rattus sp.

<400> 30															
Ala	Val	Ile	Thr	Gly	Ala	Cys	Glu	Arg	Asp	Val	Gln	Cys	Gly	Ala	Gly
1				5					10					15	
Thr	Cys	Cys	Ala	Ile	Ser	Leu	Trp	Leu	Arg	Gly	Leu	Arg	Leu	Cys	Thr
			20					25					30		
Pro	Leu	Gly	Arg	Glu	Gly	Glu	Glu	Cys	His	Pro	Gly	Ser	His	Lys	Ile
		35				40					45				
Pro	Phe	Phe	Arg	Lys	Arg	Gln	His	His	Thr	Cys	Pro	Cys	Ser	Pro	Ser
	50				55					60					
Leu	Leu	Cys	Ser	Arg	Phe	Pro	Asp	Gly	Arg	Tyr	Arg	Cys	Ser	Gln	Asp
65				70				75						80	
Leu	Lys	Asn	Val	Asn	Phe										
				85											

<210> 31
 <211> 81
 <212> PRT
 <213> Rattus sp.

<400> 31															
Ala	Val	Ile	Thr	Gly	Ala	Cys	Asp	Lys	Asp	Ser	Gln	Cys	Gly	Gly	Gly
1				5				10						15	
Met	Cys	Cys	Ala	Val	Ser	Ile	Trp	Val	Lys	Ser	Ile	Arg	Ile	Cys	Thr
			20					25				30			
Pro	Met	Gly	Gln	Val	Gly	Asp	Ser	Cys	His	Pro	Leu	Thr	Arg	Lys	Val
		35				40					45				
Pro	Phe	Trp	Gly	Arg	Arg	Met	His	His	Thr	Cys	Pro	Cys	Leu	Pro	Gly
	50				55					60					
Leu	Ala	Cys	Leu	Arg	Thr	Ser	Phe	Asn	Arg	Phe	Ile	Cys	Leu	Ala	Arg
65				70					75					80	
Lys															

<210> 32
 <211> 77
 <212> PRT
 <213> Bombina maxima

<400> 32															
Ala	Val	Ile	Thr	Gly	Ala	Cys	Asp	Arg	Asp	Val	Gln	Cys	Gly	Ser	Gly
1				5					10					15	

Thr	Cys	Cys	Ala	Ala	Ser	Leu	Trp	Ser	Arg	Asn	Ile	Arg	Phe	Cys	Val
			20					25					30		
Pro	Leu	Gly	Asn	Asn	Gly	Glu	Glu	Cys	His	Pro	Ala	Ser	His	Lys	Val
		35					40					45			
Pro	Tyr	Asn	Gly	Lys	Arg	Leu	Ser	Ser	Leu	Cys	Pro	Cys	Lys	Ser	Gly
	50					55				60					
Leu	Thr	Cys	Ser	Lys	Ser	Gly	Glu	Lys	Phe	Gln	Cys	Ser			
65					70					75					